

## CLAIMS

1. A dry premix comprising a fast-setting hydraulic binder, fluidifiers and/or superfluidifiers, setting regulators and aggregates, where said aggregates are made up of two fractions having different grain size and the ratio between the characteristic grain diameters of the two fractions of aggregates is comprised between 2.2 and 3.2.
- 5 2. The dry premix according to Claim 1, where the ratio between the characteristic grain diameters of the two fractions is comprised between 2.5 and 3.0.
- 10 3. The premix according to Claims 1-2, where the characteristic grain diameter of one fraction is comprised between 0.2 mm and 0.4 mm, and the characteristic grain diameter of the other fraction is comprised between 0.6 mm and 0.8 mm.
- 15 4. The premix according to Claims 1-3, where the two fractions are substantially monogranular.
5. The premix according to Claims 1-4, where each of the two fractions represents approximately 50 wt% with respect to the total aggregates present.
6. The premix according to Claims 1-5, comprising additives for cementitious mixes.
- 20 7. The premix according to Claims 1-6, where said additives include waterproofing agents, organic resins, air-entraining agents, and expansive agents.
8. A pourable cementitious mortar comprising a fast-setting hydraulic binder, fluidifiers and/or superfluidifiers, setting regulators, aggregates, and water, where said aggregates are made up of two fractions with different grain size and the ratio between the characteristic grain diameters of the two fractions of aggregates is comprised between 2.2 and 3.2.
- 25 9. The mortar according to Claim 8, where the ratio between the characteristic grain diameters of the two fractions is comprised between 2.5 and 3.0.
- 30 10. The mortar according to Claims 8-9, where the characteristic grain diameter of one fraction is comprised between 0.2 mm and 0.4 mm, and the

characteristic grain diameter of the other fraction is comprised between 0.6 mm and 0.8 mm.

11. The mortar according to Claims 8-10, where both of the fractions of aggregates are substantially monogranular.
- 5 12. The mortar according to Claims 8-11, where each of the two fractions represents approximately 50 wt% with respect to the total aggregates present.
13. The mortar according to Claims 8-12, containing additives for cementitious mixes.
- 10 14. The mortar according to Claims 8-13, where said additives include waterproofing agents, organic resins, air-entraining agents, and expansive agents.
- 15 15. Use of a premix according to Claims 1-7 for the preparation of pourable mortars with a high degree of fluidity.
16. Use of a pourable mortar according to Claims 8-14, for applications in the cement sector.
17. The use according to Claim 16, for the recovery of deteriorated building works, consolidation of rock formations, structural reinforcement, injection in the conduits of tendons, immobilization of toxic-noxious refuse, and in the production of cementitious products by means of pouring in moulds.
- 20 18. A process for preparing a pourable mortar with a high degree of fluidity, characterized by mixing water, a fast-setting hydraulic binder, fluidifiers and/or superfluidifiers, setting regulators, aggregates, and possible cementitious additives, where said aggregates are made up of two fractions with different grain size and the ratio between the characteristic grain diameters of the two fractions is comprised between 2.2 and 3.2.
- 25 19. A process for preparing cementitious products, characterized in that a mortar according to Claims 8-14 is poured into appropriate moulds and solidified therein.
- 20 20. A cementitious product obtainable by means of the process described in Claim 19.
- 30 21. The cementitious product consisting of a premix according to Claims 1-8.